



**CATCH
OF THE DAY**

Prawn Fishers Innovate to Reduce Bycatch Australian Wild Prawns

WORKSHEET

YEAR 9-10

This resource has been developed by:



FRDC
FISHERIES RESEARCH AND
DEVELOPMENT CORPORATION

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Over time, excessive bycatch can contribute to the depletion of non-target species populations and disrupt the balance of marine ecosystems. This can have long-term consequences for the health and productivity of fisheries, affecting not only the prawn industry but also the livelihoods of coastal communities dependent on marine resources.



Scan the QR code or click on the link to learn about the ongoing efforts in the seafood industry, particularly prawn fishing, to reduce bycatch and maintain sustainability. These efforts are driven by the desire to preserve biodiversity for future generations.

After watching the video, record your answers to the questions in the spaces below.



> Prawn Fishers Innovate to Reduce Bycatch Australian Wild Prawns

(7:14)

<https://www.youtube.com/watch?v=vtewkroEC6U>

Image credit: FRDC



a) Identify how the Northern Prawn Fishery responded to the bycatch issue in their region.

- 1. They introduced new bycatch tracking technology
- 2. They agreed to a 30% reduction target
- 3. They stopped prawn fishing altogether
- 4. They increased their prawn catch

b) Describe the role of the “fish eye” in contributing to bycatch reduction.

b) Explain why bycatch reduction is a significant issue for Australia’s wild catch prawn industry.

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Scan the QR code or click on the link to view the video about Karumba Prawns.



Karumba Prawns

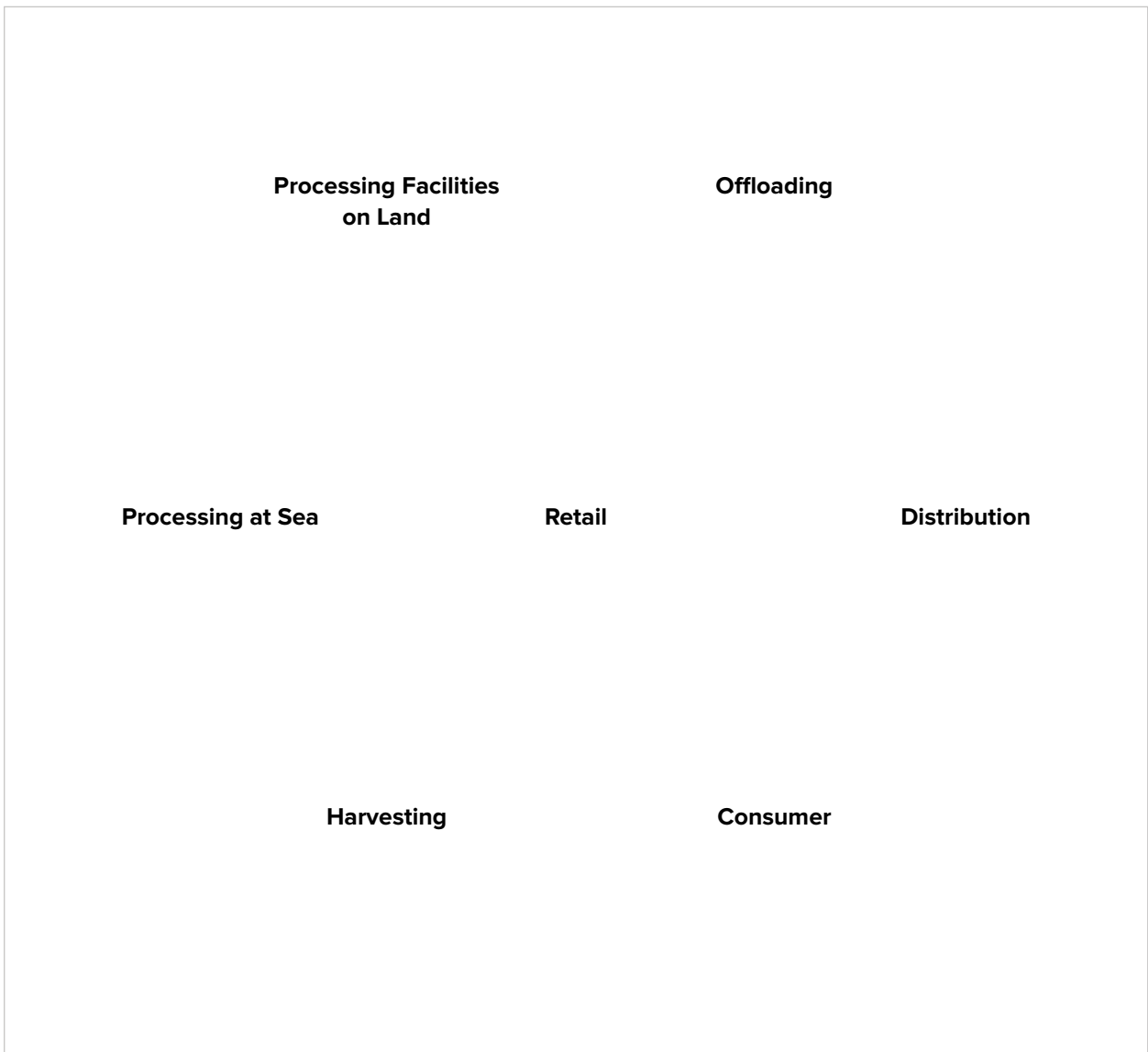
(14:18)

<https://www.youtube.com/watch?v=XNJBjL1eCa0>

Image credit: FRDC



- d) Use the following headings to create a supply chain flowchart in a workbook or digitally to show the journey of banana prawns from ocean to plate. Your flowchart should include headings, images, and arrows to depict each stage of the value supply chain. Add a short description highlighting any occupations or sustainability practices relevant to each supply chain stage.



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Answers

- a) 2
- b) Suggested answers include: the “fish eye” is a device that attracts fish into the net, making them more inclined to escape through the top. It contributed to bycatch reduction by improving the efficiency of fishing operations.
- c) Suggested answers include: Australia’s prawn industry operates in sensitive marine ecosystems, and the capture of non-target species can harm the biodiversity of these environments. Bycatch can include various marine creatures such as sea turtles, sharks, rays, and other fish species, many of which may be threatened or endangered.
- d) Harvesting > Processing at Sea > Offloading > Processing Facilities > Distribution > Consumer.

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AUSTRALIAN CURRICULUM CONTENT

Design and Technologies Year 7-10

Analyse and make judgements on the ethical, secure and sustainable production and marketing of food and fibre enterprises (**AC9TDE10K04**)

Analyse how people in design and technologies occupations consider ethical and sustainability factors to design and produce products, services and environments (**AC9TDE8K01**)

Analyse how people in design and technologies occupations consider ethical, security and sustainability factors to innovate and improve products, services and environments (**AC9TDE10K01**)

References

- Austral Fisheries. (2022). Karumba Prawns. In www.youtube.com.
<https://www.youtube.com/watch?v=XNJBjL1eCa0>

Fisheries Research and Development Corporation. (2022b). Prawn Fishers Innovate to Reduce Bycatch Australian Wild Prawns. In www.youtube.com. <https://www.youtube.com/watch?v=vtewkroEC6U>

ATTRIBUTION, CREDIT & SHARING



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